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Identification of individuals using fingerprints by linguistic descriptions fuzzy comparison

[Martinez, A.L.P.](#)[Dept. of Comput., Gen. Directorate of Police;](#)[This paper appears in: **Security Technology, 1999.**](#)[**Proceedings. IEEE 33rd Annual 1999 International Carnahan Conference on**](#)[10/05/1999 -10/07/1999, 1999](#)[Location: Madrid , Spain](#)[On page\(s\): 227-232
1999](#)[References Cited: 21](#)[IEEE Catalog Number: 99CH36303](#)[Number of Pages: 487](#)[INSPEC Accession Number: 6397358](#)**Abstract:**

One of the most reliable known methods of personal identification (besides DNA recognition) is the use of fingerprints of an individual. In the present paper it is sought to introduce a new method of personal identification through fingerprints by comparing two fingerprints (one known and the other unknown) by means of linguistic elements fuzzy comparison. For each fingerprint a linguistic expression will be generated from a type of grammar that will also be defined. The fuzzy comparison of the elements of these expressions will form the hit/no-hit between both fingerprints

Index Terms:

fingerprint identification fuzzy logic grammars fingerprints grammar linguistic descriptions fuzzy comparison personal identification

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High Voltage Engineering, 1999. Eleventh International Symposium on (Conf. Publ. No. 467) , Volume: 5 , 23-27 Aug. 1999
Page(s): 200 -203 vol.5

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Zuerndorfer, B.; Wakefield, G.H.; England, A.W.;
Acoustics, Speech, and Signal Processing, 1990. ICASSP-90., 1990 International Conference on , 3-6 April 1990
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Li, Z.C.; Suen, C.Y.; Bui, T.D.; Gu, Q.L.;
Pattern Recognition, 1990. Proceedings., 10th International Conference on , Volume: ii , 16-21 June 1990
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[\[Abstract\]](#) [\[PDF Full-Text \(484 KB\)\]](#) **IEEE CNF**

4 Discrete neural networks and fingerprint identification*Sjogaard, S.;*

Neural Networks for Signal Processing [1992] II., Proceedings of the 1992 IEEE-SP Workshop , 31 Aug.-2 Sept. 1992

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Neural Networks, 1994. IEEE World Congress on Computational Intelligence., 1994 IEEE International Conference on , Volume: 2 , 27 June-2 July 1994

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WESCANEX 95. Communications, Power, and Computing. Conference Proceedings. IEEE , Volume: 2 , 15-16 May 1995

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Applications of Computer Vision, 1996. WACV '96., Proceedings 3rd IEEE Workshop on , 2-4 Dec. 1996

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Image Processing, 1996. Proceedings., International Conference on , Volume: 1 , 16-19 Sept. 1996

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Farah, J.J.;

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11 Scientific data classification: a case study

Gung-Wei Chirn; Wang, J.T.L.; Zhiyuan Wang;

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12 Fingerprint identification using Delaunay triangulation

Bebis, G.; Deaconu, T.; Georgiopoulos, M.;

Information Intelligence and Systems, 1999. Proceedings. 1999 International Conference on , 31 Oct.-3 Nov. 1999

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13 Identification of individuals using fingerprints by linguistic descriptions fuzzy comparison

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Security Technology, 1999. Proceedings. IEEE 33rd Annual 1999 International Carnahan Conference on , 5-7 Oct. 1999

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14 Effective iterative techniques for fingerprinting design IP [VLSI CAD]

Caldwell, A.E.; Hyun-Jin Choi; Kahng, A.B.; Mantik, S.; Potkonjak, M.; Gang Qu; Wong, J.L.;
Design Automation Conference, 1999. Proceedings. 36th , 21-25
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Cappelli, R.; Erol, A.; Maio, D.; Maltoni, D.;
Pattern Recognition, 2000. Proceedings. 15th International
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1 Collection statistics for fast duplicate document detection
Abdur Chowdhury, Ophir Frieder, David Grossman, Mary Catherine McCabe
April 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 1
Full text available: pdf(191.32 KB) Additional Information: full citation, abstract, references, etc.
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John Colter, Netscape Navigator
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"museum of natural history" "museum of modern art"
- Narrow your searches by using a + if a search term must appear on a page.
museum +art
- Exclude pages by using a - if a search term must not appear on a page.
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museum +"natural history" dinosaur -Chicago



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1 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina

May 1995 ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international
Volume 24 Issue 2

Full text available: pdf(1.51 MB)

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In a digital library system, documents are available in digital form and therefore copyrights are more easily violated. This is a very serious problem, as it discourages sharing it with authorized users. There are two main philosophies for address detection. The former actually makes unauthorized use of documents difficult or easier to discover such activity. I ...

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"museum of natural history" "museum of modern art"
- Narrow your searches by using a + if a search term must appear on a page.
museum +art
- Exclude pages by using a - if a search term must not appear on a page.
museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago